

ABSTRACT

5 A method of detecting decryption of encrypted viral code is provided. Executable
code in a subject file is emulated by a code emulator. A memory monitor monitors
memory access information supplied by the emulator. A memory area that is read during
10 emulation of an instruction in the code is flagged. Modification to the flagged memory
area which was read is determined. The memory monitor determines whether a memory
region that is contiguous with the modified memory area, and then updates the memory
region to encompass the modified memory area. The memory monitor also determines
whether the updated memory region is larger than a predetermined size to trigger viral
15 detection. The detection method may be embodied in a computer system, in a computer
program (or some unit of code) stored on a computer readable medium, such as a floppy
disk, CD, DVD, etc., and/or transmitted via a network, such as the Internet, or another
transmission medium.